



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re Application of:

William B. Vail, III

Serial No.: 10/678,738

Confirmation No.: 6117

Filed:

October 2, 2003

For: METHOD AND APPARATUS

FOR CEMENTING DRILL STRINGS IN PLACE FOR ONE

PASS DRILLING AND

COMPLETION OF OIL AND

**GAS WELLS** 

Group Art Unit: 3672

Examiner:

Unknown

Customer No.: 36735

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 CERTIFICATE OF MAILING 37 CFR 1.8

I hereby certify that this correspondence is being deposited on with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for

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9. April 64

Signature

Dear Sir:

## **INFORMATION DISCLOSURE STATEMENT**

The Applicants, and the Attorney who signs below on the basis of the information supplied by the inventor and the information in his file, submit herewith patents, publications, or other information of which they are aware, which may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56.

While the information submitted in this Information Disclosure Statement may be material pursuant to 37 CFR § 1.56, it is not intended to constitute an admission that any patent, publication, or other information referred to therein is prior art for this invention unless specifically designated as such.

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In accordance with 37 CFR § 1.97, this Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other possibly material information as defined under 37 CFR § 1.56(a) exists.

The patents and/or publications submitted herewith are set forth on the attached Form PTO-1449.

Applicants believe that no fee is due with this submission. However, if the sum of \$180.00 is due under 37 CFR § 1.17(p) pursuant to § 1.97, the Commissioner is hereby authorized to charge this fee, and any other fee necessary to make this submission timely, to the Deposit Account No. 20-0782/WEAT/0524/WBP.

Respectfully submitted,

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U.S. Depar	tment o	of Commerce, Pate	Docket No.		Serial No.		
PTO Form	1449 n	nodified)	WEAT/0	524	10/678,738		
LIST OF PA	ATENT	S AND PUBLICA	Applicant William B. Vail, III		Confirmation No.: 6117		
(Use sever	al sheet	ts if necessary)	Filing Da	te	Group		
		Examiner Unkr	nown		10/02/20	03	3672
U.S. Paten	t Docu	ments					
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A1	6,591,471	07-15-2003	Hollingsworth et al.	29	407.09	
	A2	6,554,064	04-29-2003	Restarick et al.	166	250.01	
	A3	6,543,538	04-08-2003	Tolman et al.	166	284	
	A4	6,538,576	03-25-2003	Schultz et al.	340	859.6	
•	A5	6,536,522	03-25-2003	Birckhead et al.	166	250.15	
	A6	6,536,520	03-25-2003	Snider et al.	166	78.1	
	A7	6,527,064	03-04-2003	Hallundbaek	175	320	
	A8	6,527,047	03-04-2003	Pietras	166	77.51	
	A9	6,509,301	01-21-2003	Vollmer	507	236	
	A10	6,497,280	12-24-2002	Beck et al.	166	250.07	
	A11	6,484,818	11-26-2002	Alft et al.	175	45	
	A12	6,464,004	10-15-2002	Crawford et al.	166	250.01	
	A13	6,443,247	09-03-2002	Wardley	175	402	
	A14	6,443,241	09-03-2002	Juhasz et al.	175	52	
	A15	6,427,776	08-06-2002	Hoffman et al.	166	311	
	A16	6,419,033	07-16-2002	Hahn et al.	176	61	
	A17	6,419,014	07-16-2002	Meek et al.	166	255.2	
	A18	6,412,574	07-02-2002	Wardley et al.	175	7	
	A19	6,412,554	07-02-2002	Allen et al.	166	80.1	
	A20	6,408,943	06-25-2002	Schultz et al.	166	285	
	A21	6,405,798	06-18-2002	Barrett et al.	166	250.01	
	A22	6,397,946	06-04-2002	Vail, III	166	250.01	
	A23	6,378,633	04-30-2002	Moore et al.	175	325.5	
	A24	6,378,630	04-30-2002	Ritorto et al.	175	173	
	A25	6,378,627	04-30-2002	Tubel et al.	175	24	
	A26	6,374,924	04-23-2002	Hanton et al.	176	6	
_	A27	6,371,203	04-16-2002	Frank et al.	166	207	
Examiner	•	•			Date Cor	sidered	L

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

Sheet 2 of 18 sheet(s)
Serial No.

U.S. Depar	tment o	of Commerce, Pat	Docket	No.	Serial No.			
PTO Form		•	WEAT/0	)524	10/678,738			
LIST OF P	ATENT	S AND PUBLICA	ATIONS CITED	BY APPLICANT	Applicant William B. Vail, III		Confirmation No.: 6117	
(Use sever	al shee	ts if necessary)			Filing Da	ate	Group	
		Examiner Unk	nown		10/02/20	003	3672	
U.S. Paten	t Docu	ments						
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate	
	A28	6,359,569	03-19-2002	Beck et al.	340	856.3		
	A29	6,357,485	03-19-2002	Quigley et al.	138	125		
	A30	6,354,373	03-12-2002	Vercaemer et al.	166	277		
	A31	6,347,674	02-19-2002	Bloom et al.	175	51		
	A32	6,343,649	02-05-2002	Beck et al.	166	250.01		
	A33	6,325,148	12-04-2001	Trahan et al.	166	297		
	A34	6,315,051	11-13-2001	Ayling	166	380		
	A35	6,311,792	11-06-2001	Scott et al.	175	162		
	A36	6,296,066	10-02-2001	Terry et al.	175	92		
	A37	6,273,189	08-14-2001	Gissler et al.	166	241.1		
	A38	6,263,987	07-24-2001	Vail, III	175	318		
	A39	6,257,332	07-10-2001	Vidrine et al.	166	250.15		
•	A40	6,234,257	05-22-2001	Ciglenec et al.	175	50		
	A41	6,225,719	05-01-2001	Hallundbaek	310	90		
	A42	6,220,117	04-24-2001	Butcher	76	108.2		
	A43	6,206,112	03-27-2001	Dickinson, III et al.	175	67		
	A44	6,196,336	03-06-2001	Fincher et al.	175	101		
	A45	6,192,980	02-27-2001	Tubel et al.	166	65.1		
	A46	6,189,621	02-20-2001	Vail, III	166	385		
	A47	6,182,776	02-06-2001	Asberg	175	300		
	A48	6,179,055	01-30-2001	Sallwasser et al.	166	254.2		
	A49	6,172,010	01-09-2001	Argillier et al.	507	102		
	A50	6,170,573	01-09-2001	Brunet et al.	166	153		
	A51	6,158,531	12-12-2000	Vail, III	175	318		
	A52	6,148,664	11-21-2000	Baird	73	152.38		
Examiner			-		Date Co	nsidered		

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

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J.S. Depar	tment o	f Commerce, Pate	Docket i	No.	Serial No.		
(PTO Form		•			WEAT/0	524	10/678,738
LIST OF P	ATENT	S AND PUBLICA	TIONS CITED I	BY APPLICANT	Applicant William B. Vail, III		Confirmation No.: 6117
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		Examiner Unkı	nown		10/02/20	003	3672
U.S. Paten	t Docu	ments					
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A53	6,119,772	09-19-2000	Pruet	166	81.1	
	A54	6,089,323	07-18-2000	Newman et al.	166	381	
	A55	6,082,461	07-04-2000	Newman et al.	166	381	
	A56	6,065,550	05-23-2000	Gardes	175	62	
	A57	6,062,326	05-16-2000	Strong et al.	175	402	
	A58	6,061,000	05-09-2000	Edwards	340	854.6	
	A59	6,059,053	05-09-2000	McLeod	175	258	
	A60	6,059,051	05-09-2000	Jewkes et al.	175	76	
	A61	6,026,911	02-22-2000	Angle et al.	175	24	
	A62	6,000,472	12-14-1999	Albright et al.	166	380	
	A63	5,971,079	10-26-1999	Mullins	166	387	
	A64	5,957,225	09-28-1999	Sinor	175	57	
	A65	5,954,131	09-21-1999	Sallwasser	166	254.2	
·	A66	5,950,742	09-14-1999	Caraway	175	57	
	A67	5,947,213	09-07-1999	Angle et al.	175	24	
	A68	5,931,231	08-03-1999	Mock	166	377	
	A69	5,921,332	07-13-1999	Spedale, Jr.	175	415	
	A70	5,921,285	07-13-1999	Quigley et al.	138	125	
	A71	5,913,337	06-22-1999	Williams et al.	138	125	
	A72	5,908,049	06-01-1999	Williams et al.	138	125	
	A73	5,907,664	05-25-1999	Wang et al.	395	86	
	A74	5,894,897	04-20-1999	Vail, III	175	318	
	A75	5,809,549	04-06-1999	Sprehe	175	71	
	A76	5,890,537	04-06-1999	Lavaure et al.	166	285	
	A77	5,860,474	01-19-1999	Stoltz et al.	166	50	
	A78	5,845,722	12-08-1998	Makohl et al.	175	101	
Examiner					Date Co	nsidered	

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U.S. Depar	tment of	Commerce, Pat	ent and Tradem	ark Office	Docket	No.	Serial No.
(PTO Form		•	WEAT/0	524	10/678,738		
LIST OF P	ATENTS	AND PUBLICA	TIONS CITED	BY APPLICANT	William B. Vail, III No.:		Confirmation No.: 6117
(Use sever	al sheets	if necessary)			Filing Da	ate	Group
	E	xaminer Unk	nown		10/02/20	003	3672
U.S. Paten	t Docum	ents					
Examiner Initial	-	Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A79	5,842,530	12-01-1998	Smith et al.	175	162	
	A80	5,842,149	11-24-1998	Harrell et al.	702	9	
	A81	5,839,519	11-24-1998	Spedale, Jr.	175	57	
	A82	5,839,330	11-24-1998	Stokka	81	57.33	
	A83	5,829,520	11-03-1998	Johnson	166	250.1	
	A84	5,828,003	10-27-1998	Thomeer et al.	174	69	
	A85	5,804,713	09-08-1998	Kluth	73	152.01	
	A86	5,794,703	08-18-1998	Newman et al.	166	381	
	A87	5,785,134	07-28-1998	McLeod et al.	175	258	
	A88	5,769,160	06-23-1998	Owens	166	65.1	
	A89	5,746,276	05-05-1998	Stuart	173	1	
	A90	5,743,344	04-28-1998	McLeod et al.	175	259	
	A91	5,735,348	04-07-1998	Hawkins, III	166	285	
	A92	5,732,776	03-31-1998	Tubel et al.	166	250.15	
•	A93	5,720,356	02-24-1998	Gardes	175	62	
	A94	5,711,382	01-27-1998	Hansen et al.	175	52	
	A95	5,667,026	09-16-1997	Lorenz et al.	175	162	
	A96	5,667,023	09-16-1997	Harrell et al.	175	45	
	A97	5,667,011	09-16-1997	Gill et al.	166	295	
	A98	5,662,182	09-02-1997	McLeod et al.	175	258	
	A99	5,662,170	09-02-1997	Donovan et al.	166	358	
	A100	5,661,888	09-02-1997	Hanslik	29	407.02	
	A101	5,651,420	07-29-1997	Tibbitts et al.	175	102	
	A102	5,584,343	12-17-1996	Coone	166	387	
	A103	5,582,259	12-10-1996	Barr	175	73	
	A104	5,560,437	10-01-1996	Dickel et al.	175	40	
Examiner					Date Co	nsidered	

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Docket No.

IST OF P	ATENTS	AND PUBLICA	TIONS CITED	BY APPLICANT	Applicant William B. Vail, III		Confirmation No.: 6117	
Use sever	al sheets	if necessary)			Filing Da	ate	Group	
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J.S. Paten	t Docum	ents						
Examiner nitial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate	
	A105	5,553,672	09-10-1996	Smith, Jr. et al.	166	382		
	A106	5,551,521	09-03-1996	Vail, III	175	65		
	A107	5,547,314	08-20-1996	Ames	405	165		
	A108	5,547,029	08-20-1996	Rubbo et al.	166	375		
	A109	5,535,838	07-16-1996	Keshavan et al.	175	374		
	A110	5,535,824	07-16-1996	Hudson	166	207		
	A111	5,497,840	03-12-1996	Hudson	175	72		
	A112	5,472,057	12-05-1995	Winfree	175	57		
	A113	5,452,923	09-26-1995	Smith	285	145		
	A114	5,412,568	05-02-1995	Schultz	364	422		
	A115	5,398,760	03-21-1995	George et al.	166	297		
	A116	5,392,715	02-28-1995	Pelrine	104	138.2		
	A117	5,386,746	02-07-1995	Hauk	81	57.34		
	A118	5,379,835	01-10-1995	Streich	166	181		
	A119	5,368,113	11-29-1994	Schulze- Beckinghausen	175	162		
	A120	5,355,967	10-18-1994	Mueller et al.	175	65		
	A121	5,354,150	10-11-1994	Canales	405	154		
	A122	5,353,872	10-11-1994	Wittrisch	166	250		
	A123	5,343,950	09-06-1994	Hale et al.	166	293		
	A124	5,339,899	08-23-1994	Ravi et al.	166	250		
	A125	5,332,048	07-26-1994	Underwood et al.	175	26		
	A126	5,323,858	06-28-1994	Jones et al.	166	291		
	A127	5,320,178	06-14-1994	Cornette	175	19		
	A128	5,305,830	04-26-1994	Wittrisch	166	250		
	A129	5,297,833	03-29-1994	Willis et al.	294	102.2		
	A130	5,294,228	03-15-1994	Willis et al.	414	22.55		
Examiner					Date Co	nsidered	•	

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J.S. Department of Commerce, Patent and Trademark Office						<b>1</b> 0.	Serial No.
(PTO Form		•			WEAT/0	524	10/678,738
LIST OF P	ATENTS	AND PUBLICA	TIONS CITED	BY APPLICANT	Applicant William B. Vail, III		Confirmation No.: 6117
(Use sever	al sheets	if necessary)	Filing Da	ite	Group		
	E	kaminer Unkı	nown		10/02/20	03	3672
U.S. Paten	t Docum	ents			•		
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A131	5,291,956	03-08-1994	Mueller et al.	175	67	
	A132	5,285,204	02-08-1994	Sas-Jaworsky	340	854.9	
	A133	5,285,008	02-08-1994	Sas-Jaworsky et al.	174	47	
	A134	5,282,653	02-01-1994	LaFleur et al.	285	110	
	A135	5,271,472	12-21-1993	Leturno	175	107	
	A136	5,255,751	10-26-1993	Stogner	175	203	
	A137	5,255,741	10-26-1993	Alexander	166	278	
	A138	5,234,052	08-10-1993	Coone et al.	166	155	
	A139	5,209,302	05-11-1993	Robichaux et al.	166	355	
	A140	5,197,553	03-30-1993	Leturno	175	57	
	A141	5,191,939	03-09-1993	Stokley	166	379	
	A142	5,186,265	02-16-1993	Henson et al.	175	107	
	A143	5,176,518	01-05-1993	Hordijk et al.	434	37	
•	A144	5,176,180	01-05-1993	Williams et al.	138	172	
	A145	5,172,765	12-22-1992	Sas-Jaworsky	166	384	
	A146	5,168,942	12-08-1992	Wydrinski	175	50	
	A147	5,160,925	11-03-1992	Dailey et al.	340	853.3	
	A148	5,156,213	10-20-1992	George et al.	166	297	
	A149	5,148,875	09-22-1992	Karlsson et al.	175	62	
	A150	5,111,893	05-12-1992	Kvello-Aune	175	258	
	A151	5,096,465	03-17-1992	Chen et al.	51	295	
	A152	5,082,069	01-21-1992	Seiler et al.	175	5	
	A153	5,074,366	12-24-1991	Karlsson et al.	175	76	
	A154	5,069,297	12-03-1991	Krueger, deceased et al.	175	65	
	A155	5,060,737	10-29-1991	Mohn	175	104	
Examiner					Date Cor	nsidered	

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PTO Form				\	WEAT/0	524	10/678,738	
LIST OF P	ATENTS	AND PUBLICA	TIONS CITED I	BY APPLICANT	Applicant William B. Vail, III		Confirmation No.: 6117	
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J.S. Paten	t Docum	ents						
Examiner nitial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate	
	A156	5,060,542	10-29-1991	Hauk	81	57.34		
	A157	5,049,020	09-17-1991	McArthur	414	22.51		
	A158	5,027,914	07-02-1991	Wilson	175	406		
	A159	5,022,472	06-11-1991	Bailey et al.	175	195		
	A160	5,009,265	04-23-1991	Bailey et al.	166	118		
	A161	4,997,042	03-05-1991	Jordan et al.	166	379		
	A162	4,962,822	10-16-1990	Pascale	175	258		
	A163	4,921,386	05-01-1990	McArthur	414	22.51		
	A164	4,909,741	03-20-1990	Schasteen et al.	439	13		
	A165	4,880,058	11-14-1989	Lindsey et al.	166	289		
	A166	4,854,386	08-08-1989	Baker et al.	166	289		
	A167	4,843,945	07-04-1989	Dinsdale	81	57.34		
•	A168	4,842,081	06-27-1989	Parant	175	23		
•	A169	4,840,128	06-20-1989	McFarlane et al.	108	50		
	A170	4,832,552	05-23-1989	Skelly	414	22.54		
	A171	4,813,495	03-21-1989	Leach	175	6		
	A172	4,765,416	08-23-1988	Bjerking et al.	175	71		
	A173	4,762,187	08-09-1988	Haney	175	71		
	A174	4,760,882	08-02-1988	Novak	166	295		
	A175	4,735,270	04-05-1988	Fenyvesi	175	113		
	A176	4,725,179	02-16-1988	Woolslayer et al.	414	22		
	A177	4,691,587	09-08-1987	Farrand et al.	74	493		
	A178	4,676,310	06-30-1987	Scherbatskoy et al.	166	65.1		
	A179	4,671,358	06-09-1987	Lindsey, Jr. et al.	166	291		
	A180	4,686,873	08-18-1987	Lang et al.	81	57.35		
Examiner					Date Co	nsidered		

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J.S. Paten	t Docum	ents	<u> </u>					
Examiner nitial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate	
	A181	4,655,286	04-07-1987	Wood	166	285		
	A182	4,652,195	03-24-1987	McArthur	414	22		
	A183	4,651,837	03-24-1987	Mayfield	175	262		
	A184	4,630,691	12-23-1986	Hooper	175	65		
	A185	4,605,077	08-12-1986	Boyadjieff	175	85		
	A186	4,604,724	08-05-1986	Shaginian et al.	364	478		
	A187	4,589,495	05-20-1986	Langer et al.	166	383		
	A188	4,583,603	04-22-1986	Dorleans et al.	175	324		
	A189	4,580,631	04-08-1986	Baugh	166	208		
	A190	4,545,443	10-08-1985	Wiredal	175	258		
	A191	4,544,041	10-01-1985	Rinaldi	175	57		
	A192	4,534,426	08-13-1985	Hooper	175	65		
	A193	4,474,243	10-02-1984	Gaines	166	362		
•	A194	4,472,002	09-18-1984	Beney et al.	308	3.9		
	A195	4,470,470	09-11-1984	Takano	175	260		
	A196	4,463,814	08-07-1984	Horstmeyer et al.	175	45		
	A197	4,460,053	07-17-1984	Jurgens et al.	175	329		
	A198	4,440,220	04-03-1984	McArthur	166	85		
	A199	4,430,892	02-14-1984	Owings	73	151		
	A200	4,413,682	11-08-1983	Callihan et al.	166	382		
	A201	4,408,669	10-11-1983	Wiredal	175	258		
	A202	4,384,627	05-24-1983	Ramirez- Jauregui	175	260		
	A203	4,336,415	06-22-1982	Walling	174	47		
	A204	4,320,915	03-23-1982	Abbott et al.	294	96		
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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

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	A214	4,194,383	03-25-1980	Huzyak	72	245	
	A215	4,175,619	11-27-1979	Davis	166	291	
	A216	4,173,457	11-06-1979	Smith	51	309	
	A217	4,144,396	03-13-1979	Okano et al.	560	246	
	A218	4,142,739	03-06-1979	Billingsley	285	18	
	A219	4,133,396	01-09-1979	Tschirky	175	57	
	A220	4,116,274	09-26-1978	Rankin et al.	166	250	
-	A221	4,113,236	09-12-1978	Neinast	254	134.5	
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	A239	3,870,114	03-11-1975	Pulk, deceased et al.	175	258	
	A240	3,840,128	10-08-1974	Swoboda, Jr. et al.	214	1	
	A241	3,838,613	10-01-1974	Wilms	81	57.34	
	A242	3,808,916	05-07-1974	Porter et al.	81	57.19	
	A243	3,747,675***	07-24-1973	Brown	166	237	
	A244	3,729,057	04-24-1973	Werner	175	262	
	A245	3,692,126	09-19-1972	Rushing et al.	175	259	
•	A246	3,656,564	04-18-1972	Brown	175	228	
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	A303	5,343,951	09-06-1994	Cowan et al.	166	293	
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